2. Solid Angle Method

The solid angle method of calculating neutron interaction when performed
with equations (b) and (c) yields conservative results. The method is
tedious, especially where many difference geometries and spacing are
encountered.

The use of Figure V.D.1-3 yielded nonconservative results for long
cylinders with close spacing. Therefore, the curves in this figure
are not extended below a σ value of 1.0. The equations and Figure
V.D.1-3 agree quite well below λ equal to 3.0 and σ equal to 2.0.
In order to obtain conservative or safe calculations, it is recom-
mended that equations (b) and (c) be used. For rough estimations of
fractional solid angles, Figure V.D.1-3 may be used.